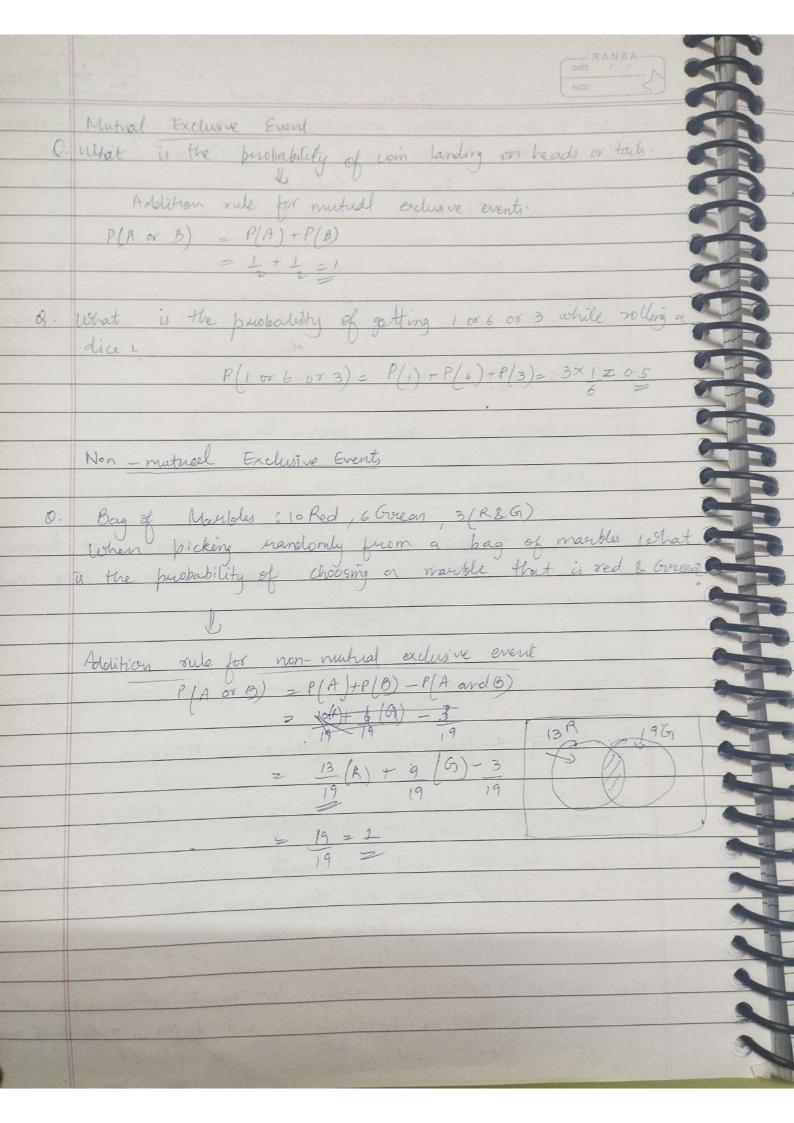
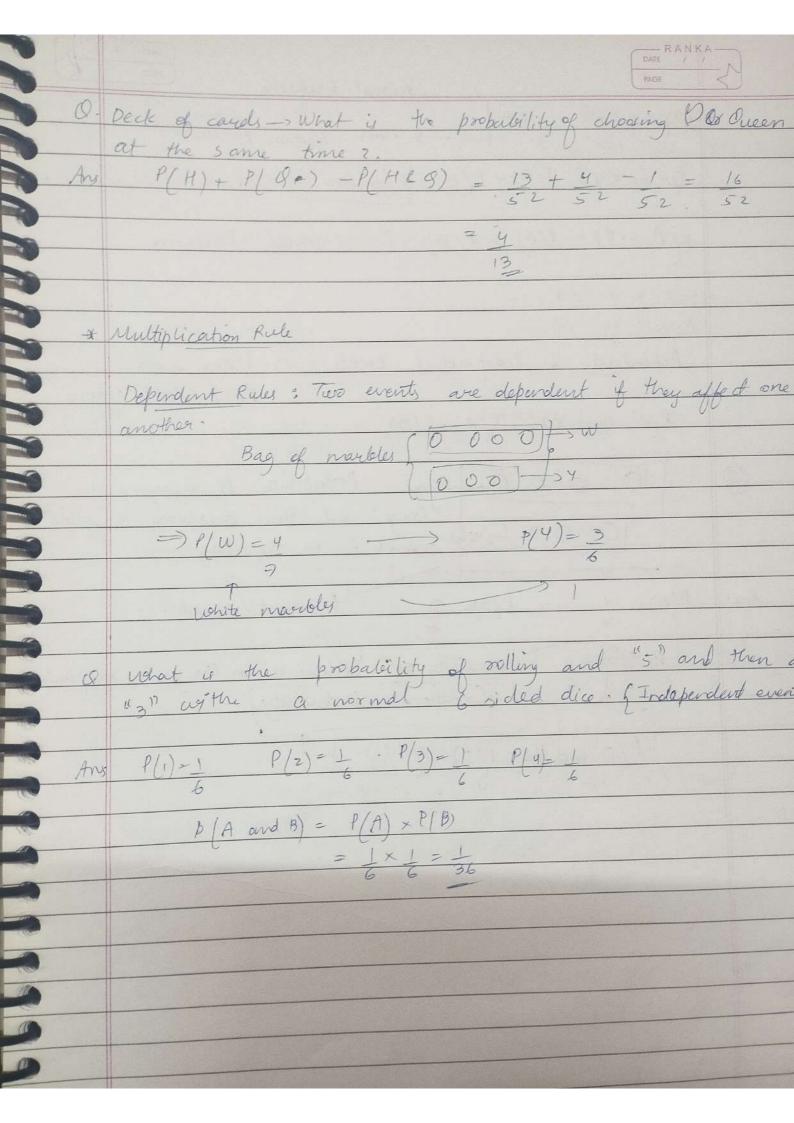
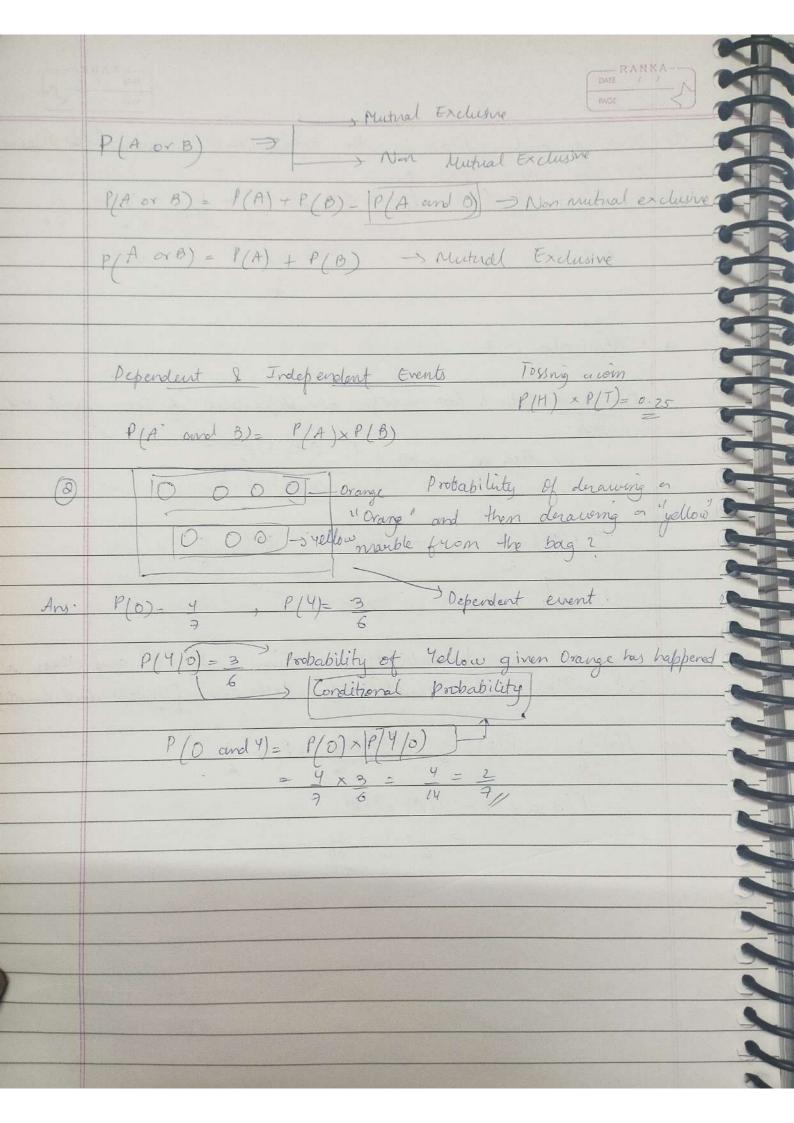


Text of all the same with 1 1230 Then the plot of all the m sample means would be a Wiki - The centeral limit theorem states that if you have a population with mean us standard deviation of and take sufficiently large variety samples from the population with replacement then the distribution of sample means will be approximately normally distributed. m) - larger the value, better the result. m 777 more inclined to Gaussian Ditubution. Egs. - Avg siz & Showk -> If we follow central limit theorem and plot distribution of sample means we can make assumptions @ Purobability: - Probability is a measure of the likelihood of ancient Eg: - Tossing a fair coin P(H)=0:5 P(T)=0:5 20/10g a Die $P(1) = \frac{1}{6}$ $P(2) = \frac{1}{6}$ $P(3) = \frac{1}{6}$ E) Mutual Exclusive event: - 2 events are mutually exclusive,
if they cannot occur at the same time.

G: - tassing a com, holling a dice Non Mutual Exclusive Events: Two events can occur at the same time ' & - Picking evendonly, a cound from a deck of condition when we wents "heart" and "king can be selected.







Cov (x, 4) = \(\frac{1}{2}\)\(\times(\frac{1}{2}i - \frac{1}{2})\(\times(\frac{1}{2}i - \frac{1}{2})\) $\frac{1}{\sigma^2 \leq (\alpha i - \bar{x})}$ $5^2 - 5 \left(x(i-\overline{x}) \times \left(x(i-\overline{x})\right) \right)$ Cov(x,x) = Var x 21:-x gi-y (2:-x) x(yi-y W X wt-. -3 40 45 -2 48 15 18 2 60 3 11 62 66 +30 = 96 Cov. = 96 = 24 XT there is the Covariance Chenevey XJ I negative, - ve Covaviance X J 47 No relationship Covaniance =0 ywxe y

